SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: WASTFALT, Maria K. Boden FLOCK, Jan-Ingmar
- (ii) TITLE OF INVENTION: FIBRINOGEN BINDING PROTEIN
- (iii) NUMBER OF SEQUENCES: 15
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
 - (B) STREET: P.O. Box 1404
 - (C) CITY: Alexandria
 - (D) STATE: Virginia
 - (E) COUNTRY: United States
 - (F) ZIP: 22313-1404
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: TBA (Div of US 09/276,141)
 - (B) FILING DATE: Even date herewith
 - (C) CLASSIFICATION:
- (vi) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 09/276,141
 - (B) FILING DATE: 25-03-99
 - (C) CLASSIFICATION:
- (vi) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/244,229
 - (B) FILING DATE: 09-DEC-1994
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: SE 9202720-0
 - (B) FILING DATE: 21-SEP-1992
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: SE 9302955-1
 - (B) FILING DATE: 13-SEP-1993
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: WO PCT/SE93/00759
 - (B) FILING DATE: 20-SEP-1993
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: McGowan, Malcolm K.

- (B) REGISTRATION NUMBER: 39,300
- (C) REFERENCE/DOCKET NUMBER: 012889-011
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (703) 836-6620
 - (B) TELEFAX: (703) 836-2021
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Ile Val Thr Lys Asp Tyr Ser Lys Glu Ser Arg Val Asn Glu Asn Ser

1 10 15

Lys Tyr Gly Thr 20

- (2) INFORMATION FOR SEQ ID NO:2:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Ile Val Thr Lys Asp Tyr Ser Lys Glu Ser Arg Val Asn Glu Lys Ser 1 5 10 15

Lys Lys Gly Ala 20

- (2) INFORMATION FOR SEQ ID NO:3:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Ile Val Thr Lys Asp Tyr Ser Gly Lys Ser Gln Val Asn Ala Gly Ser

1 10 15

Lys Asn Gly Thr 20

- (2) INFORMATION FOR SEQ ID NO:4:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Ile Val Thr Lys Asp Tyr Ser Gly Lys Ser Gln Val Asn Ala Gly Ser

1 10 15

Lys Asn Gly Thr 20

- (2) INFORMATION FOR SEQ ID NO:5:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Ser Glu Gly Tyr Gly Pro Arg Glu Lys Lys Pro Val Ser Ile Asn His 1 5 10 15

Asn Ile Val Glu 20

- (2) INFORMATION FOR SEQ ID NO:6:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Met Tyr Pro Glu Lys Lys Pro Val 1 5

(2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 408 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

GAGCGAAGGA TACGGTCCAA GAGAAAAGAA ACCAGTGAGT ATTAATCACA ATATCGTAGA 60
GTACAATGAT GGTACTTTTA AATATCAATC TAGACCAAAA TTTAACTCAA CACCTAAATA 120
TATTAAATTC AAACATGACT ATAATATTT AGAATTTAAC GATGGTACAT TCGAATATGG 180
TGCACGTCCA CAATTTAATA AACCAGCAGC GAAAACTGAT GCAACTATTA AAAAAGAACA 240
AAAATTGATT CAAGCTCAAA ATCTTGTGAG AGAATTTGAA AAAACACATA CTGTCAGTGC 300
ACACAGAAAA GCACAAAAGG CAGTCAACTT AGTTTCGTTT GAATACAAAG TGAAGAAAAT 360
GGTCTTACAA GAGCGAATTG ATAATGTATT AAAACAAGGA TTAGTGAG 408

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 136 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Ser Glu Gly Tyr Gly Pro Arg Glu Lys Lys Pro Val Ser Ile Asn His 1 5 10 15

Asn Ile Val Glu Tyr Asn Asp Gly Thr Phe Lys Tyr Gln Ser Arg Pro 20 25 30

Lys Phe Asn Ser Thr Pro Lys Tyr Ile Lys Phe Lys His Asp Tyr Asn 35 40 45

	Ile	Leu 50	Glu	Phe	Asn	Asp	Gly 55	Thr	Phe	Glu	Tyr	Gly 60	Ala	Arg	Pro	Gln	
	Phe 65	Asn	Lys	Pro	Ala	Ala 70	Lys	Thr	Asp	Ala	Thr 75	Ile	Lys	Lys	Glu	Gln 80	
	Lys	Leu	Ile	Gln	Ala 85	Gln	Asn	Leu	Val	Arg 90	Glu	Phe	Glu	Lys	Thr 95	His	
	Thr	Val	Ser	Ala 100	His	Arg	Lys	Ala	Gln 105	Lys	Ala	Val	Asn	Leu 110	Val	Ser	
	Phe	Glu	Tyr 115	Lys	Val	Lys	Lys	Met 120	Val	Leu	Gln	Glu	Arg 125	Ile	Asp	Asn	
	Val	Leu 130	Lys	Gln	Gly	Leu	Val 135	Arg									
(2)	INFO	R MAT I	ION I	FOR S	SEQ :	ID NO	0:9:										
	(i)	(A) (B) (C)	LEN TYI STI	NGTH PE: 1 RANDI	: 10 nucle EDNE:	TERIS 09 ba eic a SS: s linea	ase pacid	pair	5								
	(ii)	MOLI	ECULI	E TYI	PE: 1	DNA	(gen	omic)				٠				
	(ix)	(A)	NAI	ΛΕ/ΚΙ		CDS 157.	. 654										
	(ix)	(A)	NAN	IE/KI		CDS 804.	. 100'	7									
	(xi)	SEQU	JENCI	E DES	CRI	PTIO	V: S	EQ I	D NO	:9:							
GACT	ragtg'	TA TA	AAGTO	GCTG	A TG	AGTC	ACAA	GAT	AGAT	AAC '	TATA'	TTTT	GT C	'ATA	TAT?	A	60
AAGT	rgttt	AT AC	3TTA	ATTA	A TA	ATTAC	STTA	ATT'	rcaa.	AAG '	TTGT	AAATA	A TA	GGAT	AACT	r	120
AATA	\AATG'	TA AC	GATA!	ATAA?	r TT	GGAG(GATA	ATT				AAT A Asn 1					174
	AAA																222
	GCG (270

	Pro 40															318
	AAA Lys															366
	TTC Phe															414
	TAT Tyr															462
	ACT Thr															510
	GAA Glu 120															558
	GCA Ala															606
	CAA Gln														TAA *	654
TAC	rt c t(STC A	ATTA	CTTTZ	AA G	rtca <i>i</i>	AAAT	A ATT	TAAT	TATT	ATA	TAT:	rtt :	TAT	ГААТАА	714
AAC	GACTA	ATG (CTAT	TAAT	rg co	CAGG	CAAT	r GT	AACT	TTCC	TAAA	TTA	GAC :	CATAT	TAATCG	774
TTA	AGTA:	rca <i>I</i>	ATTTT	raag(GA GA	AGTTT	ГАСА							ATA Ile		827
	GGA Gly 10															875
	GGG Gly															923
	CAG Gln															971

AAC	AAA	TCG	AAT	GTA	TAT	GCA	TTA	GCT	GCA	GGA	AGC	TT
Asn	Lys	Ser	Asn	Val	Tyr	Ala	Leu	Ala	Ala	Gly	Ser	
			60					65				

1009

- (2) INFORMATION FOR SEQ ID NO:10:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 781 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

60 ATAGATAACT ATATTTTGTC TATATTATAA AGTGTTTATA GTTAATTAAT AATTAGTTAA TTTCAAAAGT TGTATAAATA GGATAACTTA ATAAATGTAA GATAATAATT TGGAGGATAA 120 TTAACATGAA AAATAAATTG ATAGCAAAAT CTTTATTAAC AATAGCGGCA ATTGGTATTA 180 CTACAACTAC AATTGCGTCA ACAGCAGATG CGAGCGAAGG ATACGGTCCA AGAGAAAAGA 240 AACCAGTGAG TATTAATCAC AATATCGTAG AGTACAATGA TGGTACTTTT AAATATCAAT 300 CTAGACCAAA ATTTAACTCA ACACCTAAAT ATATTAAATT CAAACATGAC TATAATATTT 360 TAGAATTTAA CGATGGTACA TTCGAATATG GTGCACGTCC ACAATTTAAT AAACCAGCAG 420 CGAAAACTGA TGCAACTATT AAAAAAGAAC AAAAATTGAT TCAAGCTCAA AATCTTGTGA 480 GAGAATTTGA AAAAACACAT ACTGTCAGTG CACACAGAAA AGCACAAAAG GCAGTCAACT 540 TAGTTTCGTT TGAATACAAA GTGAAGAAAA TGGTCTTACA AGAGCGAATT GATAATGTAT 600 TAAAACAAGG ATTAGTGAGA TAATACTTCT GTCATTATTT TAAGTTCAAA ATAATTTAAT 660 ATTATATTAT TTTTTATTAA TAAAACGACT ATGCTATTTA ATGCCAGGTT AATGTAACTT 720 TCCTAAAATT GACTATATAA TCGTTAAGTA TCAATTTTAA GGAGAGTTTA CAATGAAATT 780 781 т

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 785 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

ATAGATAGCT	ATATTCAGTC	TATATTATAA	AGTGTTTATA	GTTAATTAAT	AATTAGTTAA	60
TTTCAAAAGT	TGTATAAATA	GGATAACTTA	ATAAATGTAA	GATAATAATT	TGGAGGATAA	120
TTGACATGAA	AAATGCATTG	ATAGCAAAAT	CTTTATTAAC	ATTAGCGGCA	ATAGGTATTA	180
CTACAACTAC	AATTGCGTCA	ACAGCAGATG	CGAGCGAAGG	ATACGGTCCA	AGAGAAAAGA	240
AACCAGTGAG	TATTAATCAC	AATATCGTAG	AGTACAATGA	TGGTACTTTT	AAATATCAAT	300
CTAGACCAAA	ATTTAACTCA	ACACCTAAAT	ATATTAAATT	CAAACATGAC	TATAATATTT	360
TAGAATTTAA	CGATGGTACA	TTCGAATATG	GTGCACGTCC	ACAATTTAAT	AAACCAGCAG	420
CGAAAACTGA	TGCAACTATT	AAAAAAGAAC	AAAAATTGAT	TCAAGCTCAA	AATCTTGTGA	480
GAGAATTTGA	AAAAACACAT	ACTGTCAGTG	CACACAGAAA	AGCACAAAAG	GCAGTCAACT	540
TAGTTTCGTT	TGAATACAAA	GTGAAGAAAA	TGGTCTTACA	AGAGCGAATT	GATAATGTAT	600
TAAAACAAGG	ATTAGTTAAA	TAAAACTTCA	ATCGTTGCTG	TTATCTGGAA	ATAATTAATT	660
AAATGTTATG	TTAATTTTTG	TTAATGAAAA	AAGTAATCTA	TTTAATGACA	GGTTAATGTA	720
ATTGTCCTGA	AATTGACTAT	ATACTCAGTA	AGTATCAATT	TTAAGGAGAG	CTTATAATGA	780
AATTT						785

(2) INFORMATION FOR SEQ ID NO:12:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 165 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

Met Lys Asn Lys Leu Ile Ala Lys Ser Leu Leu Thr Ile Ala Ala Ile 1 5 10 15

Gly Ile Thr Thr Thr Ile Ala Ser Thr Ala Asp Ala Ser Glu Gly 20 25 30

Tyr Gly Pro Arg Glu Lys Lys Pro Val Ser Ile Asn His Asn Ile Val 35 40 45

Glu Tyr Asn Asp Gly Thr Phe Lys Tyr Gln Ser Arg Pro Lys Phe Asn 50 55 60

Ser Thr Pro Lys Tyr Ile Lys Phe Lys His Asp Tyr Asn Ile Leu Glu 65 70 75 80

Phe Asn Asp Gly Thr Phe Glu Tyr Gly Ala Arg Pro Gln Phe Asn Lys 85 90 95

Pro Ala Ala Lys Thr Asp Ala Thr Ile Lys Lys Glu Gln Lys Leu Ile 100 105 110

Gln Ala Gln Asn Leu Val Arg Glu Phe Glu Lys Thr His Thr Val Ser 115 120 125

Ala His Arg Lys Ala Gln Lys Ala Val Asn Leu Val Ser Phe Glu Tyr 130 135 140

Lys Val Lys Lys Met Val Leu Gln Glu Arg Ile Asp Asn Val Leu Lys 145 150 155 160

Gln Gly Leu Val Arg 165

(2) INFORMATION FOR SEQ ID NO:13:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 165 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

Met Lys Asn Ala Leu Ile Ala Lys Ser Leu Leu Thr Leu Ala Ala Ile 1 5 10 15

Gly Ile Thr Thr Thr Ile Ala Ser Thr Ala Asp Ala Ser Glu Gly
20 25 30

Tyr Gly Pro Arg Glu Lys Lys Pro Val Ser Ile Asn His Asn Ile Val 35 40 45

Glu Tyr Asn Asp Gly Thr Phe Lys Tyr Gln Ser Arg Pro Lys Phe Asn 50 55 60

Ser Thr Pro Lys Tyr Ile Lys Phe Lys His Asp Tyr Asn Ile Leu Glu 65 70 75 80

Phe Asn Asp Gly Thr Phe Glu Tyr Gly Ala Arg Pro Gln Phe Asn Lys
85 90 95

Pro Ala Ala Lys Thr Asp Ala Thr Ile Lys Lys Glu Gln Lys Leu Ile 100 105 110

Gln Ala Gln Asn Leu Val Arg Glu Phe Glu Lys Thr His Thr Val Ser 115 120 125

Ala His Arg Lys Ala Gln Lys Ala Val Asn Leu Val Ser Phe Glu Tyr 130 135 140

Lys Val Lys Lys Met Val Leu Gln Glu Arg Ile Asp Asn Val Leu Lys 145 150 155 160

Gln Gly Leu Val Lys 165

- (2) INFORMATION FOR SEQ ID NO:14:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 136 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

Ser Glu Gly Tyr Gly Pro Arg Glu Lys Lys Pro Val Ser Ile Asn His 1 5 10 15

Asn Ile Val Glu Tyr Asn Asp Gly Ser Phe Lys Tyr Gln Ser Arg Pro 20 25 30

Lys Phe Asn Ser Thr Pro Lys Tyr Ile Lys Phe Lys His Asp Tyr Asn 35 40 45

Ile Leu Glu Phe Asn Asp Gly Thr Phe Glu Tyr Gly Ala Arg Pro Gln 50 55 60

Phe Asn Lys Pro Ala Ala Lys Thr Asp Ala Thr Ile Lys Lys Glu Gln 65 70 75 80

Lys Leu Ile Gln Ala Gln Asn Leu Val Arg Glu Phe Glu Lys Thr His
85 90 95

Thr Val Ser Ala His Arg Lys Ala Gln Lys Ala Val Asn Leu Val Ser 100 105 110

Phe Glu Tyr Lys Val Lys Lys Met Val Leu Gln Glu Arg Ile Asp Asn 115 120 125

Val Leu Lys Gln Gly Leu Val Arg 130 135

(2) INFORMATION FOR SEQ ID NO:15:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 177 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

Ala Ser Gln Tyr Gly Pro Arg Pro Gln Phe Asn Lys Thr Pro Lys Tyr
1 5 10 15

Val Lys Tyr Arg Asp Ala Gly Thr Gly Ile Arg Glu Tyr Asn Asp Gly 20 25 30

Thr Phe Gly Tyr Glu Ala Arg Pro Arg Phe Asn Lys Pro Ser Glu Thr
35 40 45

Asn Ala Tyr Asn Val Thr Thr His Ala Asn Gly Gln Val Ser Tyr Gly 50 55 60

Ala Arg Pro Thr Tyr Lys Lys Pro Ser Glu Thr Asn Ala Tyr Asn Val 65 70 75 80

Thr Thr His Ala Asn Gly Gln Val Ser Tyr Gly Ala Arg Pro Thr Gln 85 90 95

Asn Lys Pro Ser Glu Thr Asn Ala Tyr Asn Val Thr Thr His Gly Asn 100 105 110

Gly Gln Val Ser Tyr Gly Ala Arg Gln Ala Gln Asn Lys Pro Ser Lys 115 120 125

Thr Asn Ala Tyr Asn Val Thr His Ala Asn Gly Gln Val Ser Tyr 130 135 140

Gly Ala Arg Pro Thr Tyr Lys Lys Pro Ser Lys Thr Asn Ala Tyr Asn 145 150 155 160

Val Thr Thr His Ala Asp Gly Thr Ala Thr Tyr Gly Pro Arg Val Thr
165 170 175

Lys